

SEQUENCE LISTING

<110> BULLEID, NEIL J

<120> PROCOLLAGEN ASSEMBLY

<130> 39-286

<140> US 10/632,847

<141> 2003-08-04

<150> PCT/GB98/00468

<151> 1998-03-02

<150> 9704305.3

<151> 1997-03-01

<160> 18

<170> PatentIn Ver. 2.0

<210> 1

<211> 23

<212> PRT

<213> Homo sapiens

<400> 1

Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr Phe
1 5 10 15

Leu Arg Leu Met Ser Thr Glu
20

<210> 2

<211> 23

<212> PRT

<213> Homo sapiens

<400> 2

Asn Val Glu Gly Val Thr Ser Lys Glu Met Ala Thr Gln Leu Ala Phe
1 5 10 15

Met Arg Leu Leu Ala Asn Tyr
20

<210> 3

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3

Gly Asp Asp Asn Leu Ala Pro Asn Thr Ala Asn Val Gln Met Thr Phe
1 5 10 15

Leu Arg Leu Leu Ser Thr Glu
20

<210> 4

<211> 23

<212> PRT

<213> Homo sapiens

<400> 4

Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe
1 5 10 15

Leu Arg Leu Leu Ser Ser Arg
20

<210> 5

<211> 22

<212> PRT

<213> Homo sapiens

<400> 5

Val Asp Ala Glu Gly Asn Pro Val Gly Val Val Gln Met Thr Phe Leu
1 5 10 15

Arg Leu Leu Ser Ala Ser
20

<210> 6

<211> 22

<212> PRT

<213> Homo sapiens

<400> 6

Gly Asp His Gln Ser Pro Asn Thr Ala Leu Thr Gln Met Thr Phe Leu
1 5 10 15

Arg Leu Leu Ser Lys Glu
20

<210> 7

<211> 22

<212> PRT

<213> Homo sapiens

<400> 7

Leu Asp Val Glu Gly Asn Ser Ile Asn Met Val Gln Met Thr Phe Leu
1 5 10 15

Lys Leu Leu Thr Ala Ser
20

<210> 8

<211> 22

<212> PRT

<213> Homo sapiens

<400> 8

Val Asp Ser Glu Gly Ser Pro Val Gly Val Val Gln Leu Thr Phe Leu
1 5 10 15

Arg Leu Leu Ser Val Ser
20

<210> 9

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:RECOMBINANT
PRIMER

<400> 9

agatggtcgc actggacatc

<210> 10

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:RECOMBINANT
PRIMER

<400> 10

tcgcagggat ccgtcgggtca cttgcactgg tt

32

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:RECOMBINANT
PRIMER

<400> 11

aatggagctc ctggacccat g

21

<210> 12

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:RECOMBINANT
PRIMER

<400> 12

ctgctaggta ccaaattggaa ggattcagct tt

32

<210> 13

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<223> Description of Artificial Sequence:Unknown

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<221> Unsure

<222> (13)..(18)

<223> Xaa is any naturally occurring amino acid, or no amino acid present

<400> 13

Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Ser Ser Arg
20

<210> 14

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<223> Description of Artificial Sequence:Unknown

<220>

<221> Unsure

<222> (13)..(19)

<223> Xaa is any naturally occurring amino acid, or no amino acid present

<400> 14

Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Ser Ser Arg
20

<210> 15

<211> 9

<212> PRT

<213> Homo sapiens

<400> 15

Gln Leu Ala Phe Leu Arg Leu Leu Leu
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<210> 16

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<212> PRT

<213> Homo sapiens

<400> 16

Tyr Tyr Arg Ala Asp Asp Ala Asn Val Val Arg Asp Arg Asp Leu Glu
1 5 10 15
Val Asp Thr Thr Leu Lys Ser Leu Ser Gln Gln Ile Glu Asn Ile Arg
20 25 30
Ser Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu
35 40 45
Lys Met Cys His Ser Asp Trp Lys Ser Gly Glu Tyr Trp Ile Asp Pro
50 55 60
Asn Gln Gly Cys Asn Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu
65 70 75 80
Thr Gly Glu Thr Cys Val Tyr Pro Thr Gln Pro Ser Val Ala Gln Lys
85 90 95
Asn Trp Tyr Ile Ser Lys Asn Pro Lys Asp Lys Arg His Val Trp Phe
100 105 110
Gly Glu Ser Met Thr Asp Gly Phe Gln Phe Glu Tyr Gly Gly Gln Gly
115 120 125
Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr Phe Leu Arg Leu Met
130 135 140
Ser Thr Glu Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser Val
145 150 155 160
Ala Tyr Met Asp Gln Gln Thr Gly Asn Leu Lys Lys Ala Leu Leu Leu
165 170 175
Lys Gly Ser Asn Glu Ile Glu Ile Arg Ala Glu Gly Asn Ser Arg Phe
180 185 190
Thr Tyr Ser Val Thr Val Asp Gly Cys Thr Ser His Thr Gly Ala Trp
195 200 205
Gly Lys Thr Val Ile Glu Tyr Lys Thr Thr Lys Thr Ser Arg Leu Pro
210 215 220
Ile Ile Asp Val Ala Pro Leu Asp Val Gly Ala Pro Asp Gln Glu Phe
225 230 235 240
Gly Phe Asp Val Gly Pro Val Cys Phe Leu
245 250

<210> 17

<211> 251

<212> PRT

<213> Homo sapiens

<400> 17

Phe Tyr Arg Ala Asp Gln Pro Arg Ser Ala Pro Ser Leu Arg Pro Lys
1 5 10 15
Asp Tyr Glu Val Asp Ala Thr Leu Lys Ser Leu Asn Asn Gln Ile Glu
20 25 30
Thr Leu Leu Thr Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys
35 40 45
Arg Asp Leu Arg Leu Ser His Pro Glu Trp Ser Ser Gly Tyr Tyr Trp
50 55 60
Ile Asp Pro Asn Gln Gly Cys Thr Met Glu Ala Ile Lys Val Tyr Cys
65 70 75 80
Asp Phe Pro Thr Gly Glu Thr Cys Ile Arg Ala Gln Pro Glu Asn Ile
85 90 95
Pro Ala Lys Asn Trp Tyr Arg Ser Ser Lys Asp Lys Lys His Val Trp
100 105 110
Leu Gly Glu Thr Ile Asn Ala Gly Ser Gln Phe Glu Tyr Asn Val Glu
115 120 125
Gly Val Thr Ser Lys Glu Met Ala Thr Gln Leu Ala Phe Met Arg Leu
130 135 140
Leu Ala Asn Tyr Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser
145 150 155 160
Ile Ala Tyr Met Asp Glu Glu Thr Gly Asn Leu Lys Lys Ala Val Ile
165 170 175
Leu Gln Gly Ser Asn Asp Val Glu Leu Val Ala Glu Gly Asn Ser Arg
180 185 190
Phe Thr Tyr Thr Val Leu Val Asp Gly Cys Ser Lys Lys Thr Asn Glu
195 200 205
Trp Gly Lys Thr Ile Ile Glu Tyr Lys Thr Asn Lys Pro Ser Arg Leu
210 215 220
Pro Phe Leu Asp Ile Ala Pro Leu Asp Ile Gly Gly Ala Asp His Glu
225 230 235 240
Phe Phe Val Asp Ile Gly Pro Val Cys Phe Lys
245 250

<210> 18

<211> 248

<212> PRT

<213> Homo sapiens

<400> 18

Tyr Tyr Gly Asp Glu Pro Met Asp Phe Lys Ile Asn Thr Asp Glu Ile
1 5 10 15
Met Thr Ser Leu Lys Ser Val Asn Gly Gln Ile Glu Ser Leu Ile Ser
20 25 30
Pro Asp Gly Ser Arg Lys Asn Pro Ala Arg Asn Cys Arg Asp Leu Lys
35 40 45
Phe Cys His Pro Glu Leu Lys Ser Gly Glu Tyr Trp Val Asp Pro Asn
50 55 60
Gln Gly Cys Lys Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu Thr
65 70 75 80
Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu Asn Val Pro Arg Lys His
85 90 95
Trp Trp Thr Asp Ser Ser Ala Glu Lys Lys His Val Trp Phe Gly Glu
100 105 110
Ser Met Asp Gly Gly Phe Gln Phe Ser Tyr Gly Asn Pro Glu Leu Pro
115 120 125
Glu Asp Val Leu Asp Val Gln Leu Ala Phe Leu Arg Leu Leu Ser Ser
130 135 140
Arg Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser Ile Ala Tyr
145 150 155 160
Met Asp Gln Ala Ser Gly Asn Val Lys Lys Ala Leu Lys Leu Met Gly
165 170 175
Ser Asn Glu Gly Glu Phe Lys Ala Glu Gly Asn Ser Lys Phe Thr Tyr
180 185 190
Thr Val Leu Glu Asp Gly Cys Thr Lys His Thr Gly Glu Trp Ser Lys
195 200 205
Thr Val Phe Glu Tyr Arg Thr Arg Lys Ala Val Arg Leu Pro Ile Val
210 215 220
Asp Ile Ala Pro Tyr Asp Ile Gly Gly Pro Asp Gln Glu Phe Gly Val
225 230 235 240
Asp Val Gly Pro Val Cys Phe Leu
245